U. S. Department of Agriculture - Forest Service
CENTRAL STATES FOREST EXPERIMENT STATION

Technical Note 50. December 1, 1941

VOLUME TABLE 1/
for
PIN OAK
(Quercus palustris)
Columbiana, Portage, Richland and Trumbull Counties, Ohio

Merchantable Stem to a Variable Top Diameter — INTERNATIONAL Rule (¼" Kerf)

Diameter breast high outside bark (inches)	Gross volume of stem in 12.3-foot logs to merchantable height				Top d.i.b. at merchantable limit	Basis in trees
	1 log	2 logs	3 logs	4 logs		
	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Inches	Number
9	21	37	51	64	7.2	54
10	27	47	65	82	7.5	
11	33	58	80	101	7.8	51
12	40	70	98	123	8.2	
13	48	85	118	148	8.6	39
14	57	100	139	175	9.0	
15	67	117	162	205	9.6	28
16	77	136	188	237	10.2	
17	89	155	215	272	10.9	8
18	101	177	246	310	11.5	
19		200	278	351	12.2	2
20		225	312	394	12.9	
21		251	348	440	13.6	-
22		279	386	488	14.3	
23			428	541	15.1	1
24			471	594	15.8	
25			518	653	16.6	1
26			566	714	17.3	
Basis in trees--number	59	63	59	3	--	184

1/ Trees measured by J. W. Girard in 2-inch diameter classes and in 10- to 16-foot log lengths above a 1-foot stump and scaled as such. Table prepared in 1941 by the equation method. Coefficient of multiple correlation (R) is .984. Band of the standard error of estimate is 88.5 to 113.0 percent. Block shows limits of basic data.

The total estimated gross volume of single pin oak trees or stands should be corrected for cull (including defect, sweep, crook, shake, etc.) by a percentage reduction. This percentage should be determined locally through observing the cull elements and through local experience of millmen as regards losses from rot, shake, etc., in utilizing this species.

R. E. Emmer